

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Dahlberg et al.

Group No.:

1636

Serial No.:

09/941,095

Examiner:

James S. Ketter

Filed:

08/28/01

Entitled:

Kits for the Detection of Target Sequences

TRANSMITTAL OF PTO FORM-1449

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on May 22/2006.

Bv:

Mary Éllen Waite

Sir or Madam:

Enclosed please find Form PTO-1449 for filing in the U.S. Patent and Trademark Office. This application is a divisional of U.S. Serial No. 09/655,378, filed 9/5/2000, now U.S. Patent No. 6,673,616.

A check for \$180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing PTO Form-1449 after three months as set forth in C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated:

May 22, 2006

Mary Ann Brow

Registration No. 42,363

05/26/2006 FMETEKI1 00000009 09941095

01 FC:1806

180.00 OP

MEDLEN & CARROLL, LLP 101 Howard Street, Suite 305 San Francisco, California 94105

608/218-6900

FORM P

EXAMINER:

Department of Commerce (Modified)

Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use Several Sheets If Necessary)

Attorney Docket No.: FORS-06614

Serial No.: 09/941,095

(37 CFR § 1.98(b)) Applicant: MARY ANN D. BROW et al. Group Art Unit: Filing Date: 08/28/2001 U.S. PATENT DOCUMENTS Subclass Filing Date Examiner Serial / Patent Issue Date Applicant / Patentee Class Initials Number 435 2/7/86 4,683,195 7/28/87 Mullis et al. 4,683,202 7/28/87 Mullis 435 91 10/25/85 2 3 435 6 8/3/89 5,108,892 4/28/92 Burke et al. 6/21/89 4 5,144,019 9/1/92 Rossi et al. 536 27 6/1/84 260 112 5 4,511,502 4/16/85 Builder et al. 112 6/1/84 4,518,526 5/21/85 Olson 260 6 Olson et al. 260 112 6/1/84 7 4.511.503 4/16/85 6/1/84 4,512,922 4/23/85 Jones et al. 260 112 ጸ 435 252.3 8/27/93 9 5,455,170 10/03/95 Abramson et al. 10 5,614,402 5/25/97 Dahlberg et al. 435 199 6/6/94 11 5,541,311 7/30/96 Dahlberg et al. 536 23.7 6/4/93 7/17/92 12 5,422,242 6/1995 435 6 Young 91.53 12/7/92 13 5,422,253 6/6/95 Dahlberg et al. 435 FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS Publication Date Country / Patent Office Subclass Translation Document Class Number Yes No 1/68 14 WO 90/01069 2/8/90 PCT C12Q C12N 15/54 WO 92/06200 4/16/92 15 PCT PCT C12N 15/54 WO 91/09950 7/11/91 16 17 WO 90/15157 12/13/90 PCT C12O 1/68 C12N 15/54 18 0 482 714 A1 4/29/92 **EPA** OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication) 19 Barany, "Genetic disease detection and DNA amplification using cloned thermostable ligase," Proc. Natl. Acad. Sci., 88:189 (1991); 20 Barany, "The Ligase Chain Reaction in a PCR World," PCR Methods and Applic., 1:5 (1991); Wu and Wallace, "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-21 Dependent Ligation," Genomics 4:560 (1989); Guatelli et al., "Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication," Proc. Natl. Acad. Sci., 87:1874-1878 (1990) with an erratum at Proc. Natl. Acad. Sci., 87:7797 (1990); Kwoh et al., "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich 23 hybridization format," Proc. Natl. Acad. Sci., 86:1173-1177 (1989); 24 Fahy et al., "Self-sustained Sequence Replication (3SR): An Isothermal Transcription-based Amplification System Alternative to PCR," PCR Meth. Appl., 1:25-33 (1991); 25 Landgren, "Molecular mechanics of nucleic acid sequence amplification," Trends in Genetics 9:199 (1993); Mullis, "The Polymerase Chain Reaction in an Anemic Mode: How to Avoid Cold Oligodeoxyribonuclear Fusion," PCR Methods Applic., 1:1 26 Kwok et al., "Effects of primer-template mismatches on the polymerase chain reaction: Human immunodeficiency virus type 1 model studies," Nucl. 27 Acids Res., 18:999 (1990): Examiner: Date Considered:

> Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-14 (Modified)	49	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: FORS-06614	Serial No.: 09/941,095
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		ON DISCLOSURE STATEMENT BY APPLICANT		
(Tise Several Sheets If Necessary)				
(37 CFR § 1.9	8(b))	0.5.2000		
(37 CFR § 1.9 (b)) MAY 2.5 2006 (b)			Applicant: MARY ANN D. BROW et al.	
	3	<u>, 8</u>)	Filing Date: 08/28/2001	Group Art Unit:
	122	OTHER DOCUMENTS (Including Author, Title, Da		
	-20	Buck et al., 11000 tampinier System Based on Chimeric Cycling O		
	29	Urdea et al., "A novel method for the rapid detection of specific nuc	•	without blotting or radioactivity;
	30	application to the analysis if hepatitis B virus in human serum," <i>Gene</i> 61:253-264 (1987); Gogos et al., "Detection of single base mismatches of thymine and cytosine residues by potassium permanganate and hydroxylamine in the presence of		
•]	tetralkylammonium salts," <i>Nucl. Acids Res.</i> , 18:6807-6817 (1990);		
	31	Barlow and Lehrach, "Genetics by gel electrophoresis: the impact of	pulsed field gel electrophoresis on mammaliar	genetics," Trends Genet., 3:167
Ę.		(1987);		
	32	Perlman and Butow, "Mobile Introns and Intron-Encoded Proteins,"		
	33	Conner, et al., "Detection of sickle cell as-globin allele by hybridiza		
	34	Vogelstein et al., "Genetic Alterations During Colorectal-Tumor Dev		
	35	Farr et al., "Analysis of RAS gene mutations in acute myeloid leuker 85:1629-1633 (1988);	mia by polymerase chain reaction and oligonuc	leotide probes," <i>Proc. Natl. Acad. Sci.</i>
	36	Lyons, et al., "Two G Protein Oncogenes in Human Endocrine Tumo	ors," Science 249:655-659 (1990);	
	37			
-		Clamp," Genomics 7:463-475 (1990);		
	38	Sheffield, et al., "Attachment of a 40-base-pair G+C-rich sequence (GC-clamp) to genomic DNA fragments by the	polymerase chain reaction results in
		improved detection of single-base changes," Proc. Natl. Acad. Sci., 8	•	· · · · · · · · · · · · · · · · · · ·
	39	Lerman and Silverstein, "Computational Simulation of DNA Melting	g and Its Application to Denaturing Gradient G	el Electrophoresis," Meth. Enzymol.,
	40	155:482-501 (1987); Wartell et al., "Detecting base pari substitutions in DNA fragments by	ny tomporativo andiant cal alastrophorasis " M	ual Aaida Pag. 19,2600 2701 (1000).
	41			
		Smith <i>et al.</i> , "Novel Method of Detecting Single Base Substitutions in RNA Molecules by Differential Melting Behavior in Solution," <i>Genomics</i> 3:217-223 (1988);		
	42	Borresen et al., "Constant denaturant gel electrophoresis as a rapid so		1
	43	Scholz, et al., "Rapid screening for Tp53 mutations by temperature gradient gel electrophoresis: a comparison with SSCP analysis," <i>Hum. Mol. Genet.</i> 2:2155 (1993);		
	44	Hayashi, "PCR-SSCP: A Simple and Sensitive Method for Detection	n of Mutations in the Genomic DNA," PCR Me	th. Appl., 1:34-38, (1991);
	45	Orita, et al., "Rapid and Sensitive Detection of Point Mutations and I	DNA Polymorphisms Using the polymerase Ch	ain Reaction," Genomics 5:874-879,
		(1989);		
	47	47 Marmur and Lane, "Strand Separation and Specific Recombination in Deoxyribonucleic acids: Biological Studies," <i>Proc. Natl. Acad. Sci. USA</i> 46:453 (1960);		
	Doty et al., "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Physical Chemical Studies," Proc. Natl. Acad. Sci. USA 46:461 (1960);			," Proc. Natl. Acad. Sci. USA 46:461
_	49	Wallace et al., "Application of synthetic oligonucleotides to the diagr	nosis of human genetic diseases," Biochimie 67	:755 (1985);
	50	Studencki and Wallace, "Allele-Specific Hybridization using Oligona and as-Globin Genes," DNA 3:1 (1984);	acleotide Probes of Very High Specific Activity	r: Discrimination of the Human â ^A -
	51	Studencki et al., "Discrimination among the Human â ^A , â ^S , and â' Human Genetics 37:42 (1985):	^C -Globin Genes Using Allele-Specific Oligonuc	cleotide Hybridization Probes,"
	52	Harrington and Liener, "Functional domains within FEN-1 and RAD: excision repair," <i>Genes and Develop.</i> 8:1344 (1994);	2 define a family of structure-specific endonuc	leases: implications for nucleotide
	53	Murante et al., "The Calf 5'- to 3'-Exonuclease Is Also an Endonucle	ase with Both Activities Dependent on Primers	Annealed Upstream of the Point of
Examiner:	1	Cleavage," J. Biol. Chem. 269:1191 (1994);	Date Considered:	
EXAMINER:	Initi	al citation considered. Draw line through citation if not in conformance		· ·
	copy of this form with next communication to applicant.			

i i			Attorney Docket No.: FORS-06614	Serial No.: 09/941,095
U.S. Department of Commerce				
(Modified)	ent of Con	merce		· ·
Patent and Tra	ademark O	ffice		
INIE	ODMATI	PICONOCUDE OT A TEMENT DV A DDI ICANIT		
INF	CRMAIL	(Use Several Sheets If Necessary)		
			·	
(37 CFR § 1.	98(b)) M	AY 2 5 2006 T		<u> </u>
	الم أ	<u>u</u>	Applicant: MARY ANN D. BROW et au	
Filing Date: 08/28/2001 Group Art Unit:				Group Art Unit:
THER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)				
<u> </u>	54	Romberg, DNA Replication, W.H. Freeman and Co., San Franci		
•	55	Tindall and Kunkell, Fidelity of DNA Synthesis by the <i>Thermus</i>		
	56	Brutlag et al., "An Active Fragment of DNA Polymerase Produced By Proteolytic Cleavage," Biochem. Biophys. Res. Commun. 37:982 (1969)		
-	57	Erlich et al., "Recent Advances in the Polymerase Chain Reaction," Science 252:1643 (1991);		
	58	Setlow and Kornberg, "Deoxyribonucleic Acid Polymerase: Two Distinct Enzymes in One Polypeptide," J. Biol. Chem. 247:232 (1972);		
	59_	Gelfand, PCR Technology - Principles and Applications for DN		
	60	Holland <i>et al.</i> , "Detection of specific polymerase chain reaction polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 88:7276 (1991);	product by utilizing the 5'-3' exonuclease ac	tivity of Thermus aquaticus DNA
	61		akariahia aali of the DNA Polymerosa Gene	from Thomas aguations " I Piol
·		Lawyer et al., "Isolation, Characterization, and Expression in Escherichia coli of the DNA Polymerase Gene from Thermus aquaticus," J. Biol. Chem. 264:6427 (1989);		
	62	Akhmetzjanov and Vakhitov, "Molecular cloning and nucleotide	e sequence of the DNA polymerase gene from	n Thermus flavus," Nucl. Acids Res.
		20:5839 (1992);		
•	63	Setlow et al., "Deoxyribonucleic Acid Polymerase: Two Distinct Enzymes in One Polypeptide," J. Biol. Chem. 247:224 (1972);		
	64	Levine, "The Tumor Suppressor Genes," Annu. Rev. Biochem. 62:623 (1993);		
	65	Lane and Benchimol, "p53: oncogene or anti-oncogene," Genes Dev. 4:1 (1990);		
	66	Lowe et al., "p53-Dependent Apoptosis Modulates the Cytotoxicity of Anticancer Agents," Cell 74:957 (1995);		
	67	Hollstein, et al., "Database of p53 gene somatic mutations in human tumors and cell lines," Nucleic Acids Res. 22:3551 (1994);		
	68	Cariello et al., "Database and software for the analysis of mutations at the human p53 gene," Nucleic Acids Res. 22:3549 (1994);		
	69	Hollstein et al., "Database of p53 gene somatic mutations in human tumors and cell lines," Nucleic Acids Res. 22:3551 (1994);		
	70	Higuchi, R., In Ehrlich, H.A. (Ed.), PCR Technology: Principles and Applications for DNA Amplification, Stockton Press, New York, pp. 61-70 (1991);		
	71	Nelson and Long, "A General Method of SIte-Specific Mutagenesis Using a Modification of the <i>Thermus aquaticus</i> Polymerase Chain		
		Reaction," Analytical Biochem. 180:147 (1989);		
	72	Altamirano <i>et al.</i> , "Identification of Hepatitis C Virus Genotypes among Hospitalized Patients in British Columbia, Canada," <i>J. Infect.</i> Dis. 171:1034 (1995);		
	73	Kanai et al., "HCV genotypes in chronic hepatitis C and response to interferon," Lancet 339:1543 (1992);		
	74	Yoshioka et al., "Detection of Hepatitis C Virus by Polymerase Chain Reaction and Response to Interferon-á Therapy: Relationship to		
		Genotypes of Hepatitis C Virus," Hepatology 16:293 (1992);		
	75	Okamoto et al., "Typing hepatitis C virus by polymerase chain re	eaction with type-specific primers: applicati	on to clinical surveys and tracing
		infectious sources," J. Gen. Virol. 73:673 (1992);		
	76	Frieden et al., "The Emergence of Drug-Resistant Tuberculosis in New York City," New Engl. J. Med. 328:521 (1993);		
	77	Hughes, Scrip Magazine May (1994);		
	78	Jacobs, Jr., "Multiple-Drug-Resistant Tuberculosis," Clin. Infect.		
	79	Donnabella et al., "Isolation of the Gene for the â Subunit of RI		ycobacterium tuberculosis and
	90	Identification of New Mutations," Am. J. Respir. Dis. 11:639 (19		'C D . D'
	80	Jacobs, Jr. et al., "Rapid Assessment of Drug Susceptibilities of a 260:819 (1993);	Mycobacterium tuberculosis by Means of Lu	uciterase Reporter Phages," Science
Examiner:			Date Considered:	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include				
copy of this form with next communication to applicant.				

FORM PTO-			Attorney Docket No.: FORS-06614	Serial No.: 09/941,095	
1449	£.Cam				
(Modified)	U.S. Department of Commerce (Modified)				
Patent and Tra	ademark Of	ffice			
INF	ORMATH	PADESLOSURE STATEMENT BY APPLICANT		·	
(27 CED 5 1		(Use Several Sheets If Necessary)		-	
(37 CFR § 1.	1	3 \		·	
	MAY	(2 5 2006 📆)			
-	12		Applicant: MARY ANN D. BROW et al		
	13/20		Filing Date: 08/28/2001	Group Art Unit:	
	1 1	OTHER DOCUMENTS (Including Author, Title, Da			
	81	Shinnick and Jones in <i>Tuberculosis: Pathogenesis, Protection and Control</i> , Bloom, ed., American Society of Microbiology, Washington, D.C.,			
		pp. 517-530 (1994);		- VI - LV	
-	82_	Yule, "Amplification-Based Diagnostics Target TB," Bio/Technol			
	83	Heym <i>et al.</i> , "Implications of multidrug resistance for the future of short-course chemotherapy of tuberculosis: a molecular study," <i>Lancet</i> 344:293 (1994);			
	84	Morris et al., "Molecular Mechanisms of Multiple Drug Resistance in Clinical Isolates of Mycobacterium tuberculosis," J. Infect. Dis. 171:954 (1995);			
	85	Banerjee et al., "inhA, a Gene Encoding a Target for Isoniazid ar	nd Ethionamide in Mycobacterium tuberculo	osis," Science 263:227 (1994);	
	86	Woese, "Bacterial Evolution," Microbiological Reviews, vol 51,	*		
	87	Shibata, "Preparation of Nucleic Acid for Archival Material," in		allis et al., eds. Birkhauser, Boston,	
*		pp. 47-54 (1994);			
	88 Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," Science 239:487 (1988);				
	89	Mullis and Faloona, "Specific Synthesis of DNA in Vitro via a P	olymerase-Catalyzed Chain Reaction," Meth	nods in Enzymology 155:335 (1987);	
	90	M. Bargseid et al., "A High Fidelity Thermostable DNA Polyme			
		4:34 (1991);			
	91	Perler et al., "Intervening sequences in an Archaea DNA polyme	rase gene," Proc. Natl. Acad. Sci. USA 89:5	577 (1992);	
	92	Kaledin et al., "Isolation and Properties of DNA Polymerase From the Extremely Thermophilic Bacterium Thermus flavus," Biokhimiya 46:1576 (1981);			
	93	Carballeira et al., "Purification of a Thermostable DNA Polymer	ase from Thermus thermophilus HB8 Usefu	l in the Polymerase Chain	
		Reaction," Biotechniques 9:276 (1990);	ase nom thermas mermophias 1150, esera	in in the rolymerase chain	
	94		Myers et al., "Reverse Transcription and DNA amplification by a <i>Thermus thermophilus</i> DNA Polymerase," <i>Biochem.</i> 30:7661 (1991);		
	95				
	96	Ito et al., "Compilation and alignment of DNA polymerase sequences," Nucl. Acids Res. 19:4045 (1991); Mathur et al., The DNA polymerase gene from the hyperthermophilic marine archaebacterium Pyrococcus furiosus, shows sequence homology			
		with á-like DNA polymerases," Nucl. Acids. Res. 19:6952 (199	•	. rooms, sile we sequence we means.	
	97	Dunn et al., "Complete Nucleotide Sequence of Bacteriophage T		ments." J. Mol. Biol. 166:477	
		(1983);			
	98	Antao et al., "A thermodynamic study of unusually stable RNA a	and DNA hairpins," Nucl. Acids Res. 19:590	1 (1991);	
	99	Stark, "Multicopy expression vectors carrying the <i>lac</i> repressor g	gene for regulated high-level expression of ge	enes in Escherichia coli," Gene	
	5:255 (1987); Studier and Moffatt, "Use of Bacteriophage T7 RNA Polymerase to Direct Selective High-level Expression of Cloned Genes," <i>J. Mol. Biol.</i>			f Cloned Genes," J. Mol. Biol.	
		189:113 (1986);			
	101	Sambrook et al., Molecular Cloning. A Laboratory Manual, Colo	d Spring Harbor Laboratory Press, Cold Spri	ng Harbor, pp. 1.63-1.69 (1989);	
	102	Engelke, "Purification of Thermus Aquaticus DNA Polymerase E	Expressed in Escherichia coli," Anal. Bioche	m 191:396 (1990);	
	103	Copley and Boot, "Exonuclease Cycling Assay: An Amplified A (1992);	ssay for the Detection of Specific DNA Sequ	uences," BioTechniques 13:888	
	104	King, R.A., et al., "Non-random Distribution of Missense Mutati	ions Within the Human Turosinase Gene in T	Syme L (Tyrosinose	
•	104	related)Oculocutaneous Albinism," Mol. Biol. Med. 8:19 (1991);		Type I (Tyrosmase-	
	105	Giebel <i>et al.</i> , "Organization and Nucleotide Sequences of the Hur 9:435 (1991);	man Tyrosinase Gene and a Truncated Tyros	sinase-Related Segment," Genomics	
	106 Spritz, "Molecular genetics of oculocutaneous albinism," Human Molecular Genetics 3:1469 (1994);				
Examiner:					
EXAMINER:	Init	ial citation considered. Draw line through citation if not in conform		his form	
with next communication to applicant.					

FORM PTO-			Attorney Docket No.: FORS-06614	Serial No.: 09/941,095
1449 U.S. Danatura & C.C.				
U.S. Department of Commerce (Modified)				
Patent and Tra	demark Of	ffice		
		200		
INF	ORMATIO	ON SINCE STATEMENT BY APPLICANT (Use Several Singles of Necessary)		·
	/	75% /	·	
.(37 CFR § 1.5	98(b))	MAY 2 5 2006)		
	Į.	, <u>y</u>	Applicant: MARY ANN D. BROW et a.	<i>I</i> .
			Filing Date: 08/28/2001	Group Art Unit:
		RAD SER DOCUMENTS (Including Author, Title, Da	ate; Relevant Pages, Place of Publication)	
	107	Giebel et al., "A Tyrosinase Gene Missense Mutation in Temper	ature-sensitive Type I Oculocutaneous Albi	nism," J. Clin. Invest. 87:1119
		(1991);		
)-u	108	Bouchard et al., "Induction of Pigmentation in Mouse Fibroblasts by Expression of Human Tyrosinase cDNA," J. Exp. Med. 169:2029 (1989);		
	109	Orkin and Kazazian, "The Mutation and Polymorphism of the Human &-Globin Gene and its Surrounding DNA," Annu. Rev. Genet. 18:13		
•		(1984);		
	110	Collins and Weissman, "The Molecular Genetics of Human Hen	noglobin," <i>Prog. Nucleic Acid Res. Mol. Bio</i>	ol. 31:315 (1984);
	111	Lawn et al., "The Nucleotide Sequence of the Human a-Globin	Gene," Cell 21:647 (1980);	
	112	Orkin and Goff, "Nonsense and Frameshift Mutations in \$\hat{a}^0\$-Thalassemia Detected in Cloned \$\hat{a}\$-Globin Genes," J. Biol. Chem. 256:9782 (1981);		
•	113	Goldsmith et al., ""Silent" nucleotide substitution in a â+-thalassemia globin gene activates splice site in coding sequence RNA," Proc. Natl.		
		Acad. Sci. USA 80:2318 (1983);		
	114			
•	115	Trivedi et al., "Selective Amplification of Simian Immunodeficiency Virus Genotypes after Intrarectal Inoculation of Rhesus Monkeys," Journal of Virology 68:7649 (1994);		
	116	Nugent et al., "Characterization of the Apurinic Endonuclease A	ctivity of Drosophila Rrpl," Biochemistry,	32:11445 (1993);
	117	Bardwell et al., "Specific Cleavage of Model Recombination and Repair Intermediates by the Yeast Rad1-Rad10 DNA Endonuclease," Science		
	265:2082 (1994); 118 Orkin et al., "Abnormal RNA processing due to the exon mutation of â ^E -globin gene." Nature, 300:768 (1982):			
	119	Orkin et al., "Abnormal RNA processing due to the exon mutation of \$\hat{a}^{E}\$-globin gene," Nature, 300:768 (1982);		
	119	Spritz et al., "Base substitution in an intervening sequence of a a+-thalassemic human globin gene," Proc. Natl. Acad. Sci. USA, 78:2455 (1981);		
	120	Baker et al., "Suppression of Human Colorectal Carcinoma Cell Growth by Wild-Type p53," Science 249:912 (1990);		
	121	Chen et al., "Genetic Mechanisms of Tumor Suppression by the Human p53 Gene," Science 250:1576 (1990);		
	122	Hollstein et al., "p53 Mutations in Human Cancers," Science 253:49 (1991);		
	123	Caron de Fromental and Soussi, "TP53 Tumor Suppressor Gene: A Model for Investigating Human Mutagenesis," <i>Genes, Chromosomes and Cancer</i> 4:1 (1992).		
	124	Inchauspe et al., "Use of Conserved Sequences from Hepatitis C	Virus for the Detection of Viral DNA in Inf	agted Sara by Polymorage Chain
	124	Reaction," Hepatology 14:595 (1991);	Vitas for the Detection of Vital RIVA III III	cetted Sera by Polymerase Chain
	125	Miller et al., "The rpoB Gene of Mycobacterium tuberculosis," A	Antimicrob. Agents Chemother., 38:805 (199	94);
	126	Cockerill et al., "Rapid Identification of a Point Mutation of the	Mycobacterium tuberculosis Catalase-Perox	idase (katG) Gene Associated with
		Isoniazid Resistance," J. Infect. Dis. 171:240 (1995);		
	127	Greisen et al., "PCR Primers and Probes for the 16S rRNA Gene	of Most Species of Pathogenic Bacteria, Inc	cluding Bacterial Found in
		Cerebrospinal Fluid," J. Clin. Microbiol. 32:335 (1994);		
	128	Widjojoatmondjo et al., "Rapid Identification of Bacteria by PCR-Single-Strand Conformation Polymorphism," J. Clin. Microbiol. 32:3002		
		(1994);		
	129	Maidak et al., "The Ribosomal Database project," Nucleic Acids	Res., 22:3485 (1994);	
	130	McConlogue et al., "Structure-independent DNA amplification b	y PCR using 7-deaza-2'-deoxyguanosine," /	Vucleic Acids Res. 16:20 (1988);
	131	D.S. Sigman et al., "Chemical Nucleases," Chemical Reviews 93	:2295-2316 (1993);	
	132	T.R. Cech et al., "Secondary Structure of the Tetrahymena Ribos		homology with fungal
		mitochondrial intervening sequences," Proc. Natl. Acad. Sci. US.	A 80:3903 (1983);	
Examiner:			Date Considered:	
EXAMINER:		tial citation considered. Draw line through citation if not in conform	mance and not considered. Include copy of	this form
	v	with next communication to applicant.		

`

FORM PTO-1449 (Modified)		Attorney Docket No.: FORS-06614	Serial No.: 09/941,095
INFORMA [*] (37 CFR § 1.98(b))	(Use Several Sheets If Necessary) MAY 2.5 200c 8		
(37 CFR § 1.98(0))	3	Applicant: MARY ANN D. BROW et al.	
•		Filing Date: 08/28/2001	Group Art Unit:
HER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)			
133	C.R. Woese et al., "Detailed Analysis of the Higher Order Structure of 16S Like Ribosomal Ribonucleic Acids," Microbiology Reviews 47:621 (1983);		
. 134	Hoheisel et al., "On The Activities of Escherichia coli Exonuclease III," Anal. Biochem. 209:238-246 (1993);		
135	R. Youil et al., "Screening for Mutations by Enzyme Mismatch Cleavage with T4 Endonuclease VII," Proc. Natl. Acad. Sci. USA (1995);		
- 136	Murphy et al., "Use of the 5' Noncoding Region for Genotyping Hepatitis C Virus," J. Infect. Diseases 169:473 (1994).		
• 137	Takada et al., "HCV genotypes in different countries," Lancet 339:808 (1992).		
138	Belkum, "DNA Fingerprinting of Medically Important Microorganisms by Use of PCR," Clin. Microbiol. Rev. 7(2): 174-184 (1994).		
139	Wilson et al., "Amplification of Bacterial 16S Ribosomal DNA with Polymerase Chain Reaction," J. Clin. Microbiol. 28(9):1942-1946 (1990).		
140	Bingen et al., "Use of Ribotyping in Epidemiological Surveillance of Nosocomial Outbreaks," Clin. Microbiol. Rev. 7(3):311-327 (1994).		
. 141	Tabor et al., "Effect of Manganese Ions On The Incorporation of Dideoxynucleotides By Bacteriophage T7 DNA Polymerase and Escherichia coli DNA Polymerase I, Proc. Natl. Acad. Sci. USA 86:4076-4080 (1989);		
142	Lyamichev et al., "Structure-specific endonucleolytic cleavage of nucleic acids by eubacterial DNA polymerases," Science 260:778-783 (1993)		
143	Seela and Roling, "7deazapurine containing DNA: efficiency of 7-deaza-dGTP, 7-deaza-dATP, and 7-deaza-DITP incorporation during PCR-amplification and protection from endodeoxyribonuclease hydrolysis," <i>Nuc. Acids Res.</i> 20(1)55-61 (1992)		
144	Young et al., "Detection of hepatitis C virus RNA by a combined reverse transcription-polymerase chain reaction assay," J. Clin. Microbio. 31(4)882-886 (1993)		
Examiner:		Date Considered:	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			this form